ELSEVIER

15 July 1996

Optics Communications 128 (1996) 395–399

OPTICS COMMUNICATIONS

Author index to volume 128

Andersen, P.E., P. Buchhave and P.M. Petersen, Strong coupling between coherent gratings due to nonlinear spatial frequency mixing in $Bi_{12}SiO_{20}$ 128 (1996) 185
Andrews, M.P., see Coudray, P. 128 (1996) 19
Atutov, S.N., P.V. Kolinko, A.M. Shalagin and O.A. Vostrikov, Investigation of light-induced drift of lithium vapor in the case of far removed cell walls 128 (1996) 236

Babbitt, W.R., see Merkel, K.D. 128 (1996) 136
Bandilla, A., G. Drobný and I. Jex, Phase-space motion in parametric three-wave interaction 128 (1996) 353
Banerjee, P.P., see Xia, J. 128 (1996) 1
Barber, P.W., see Chowdhury, D.Q. 128 (1996) 197
Bernasconi, P., see Medrano, C. 128 (1996) 177
Buchhave, P., see Andersen, P.E. 128 (1996) 185
Buffa, R., Laser-induced resonances in ionizing radiative collisions 128 (1996) 30

Cao, W. and Y. Zhang, The effect of pulse walkoff on the compression of bright optical pulses by dark solitons 128 (1996) 23
Chen, K., see Zhang, X. 128 (1996) 15
Cherri, A.K., High-radix signed-digit arithmetic using symbolic substitution computations 128 (1996) 108
Chien, C.-H., S.-S. Yu, Y. Lai and J. Wang, Off-axial pulse propagation in graded-index materials with Kerr nonlinearity – a variational approach 128 (1996) 145
Chisham, J., see Coudray, P. 128 (1996) 19
Chiu, M.-H., see Lee, J.-Y. 128 (1996) 193
Chowdhury, D.Q., S.C. Hill and P.W. Barber, Comment on "The morphology dependent resonance does not require discontinuity of the refractive index at the sphere surface" 128 (1996) 197
Chu, P.L., B.A. Malomed and G.D. Peng, Nonlinear amplification in a second-harmonic-generating system 128 (1996) 76
Cokgor, I., see Dvornikov, A.S. 128 (1996) 205
Corsi, C., M. Gabrysch and M. Inguscio, Detection of molecular oxygen at high temperature using a DFB-diode-laser at 761 nm 128 (1996) 35
Coudray, P., J. Chisham, A. Malek-Tabrizi, C.-Y. Li, M.P. Andrews, N. Peyghambarian and S.I. Najafi, Ultraviolet light imprinted sol-gel silica glass waveguide devices on silicon 128 (1996) 19

De Castro, B., see Rubens, A. 128 (1996) 229
Deng, L., see Garrett, W.R. 128 (1996) 66
De Sterke, C.M., see Monro, T.M. 128 (1996) 393

Dong, G. and Z. Liu, Soliton resulting from the combined effect of higher order dispersion, self-steepening and nonlinearity in an optical fiber 128 (1996) 8
Dragoman, D., Fractional Fourier-related functions 128 (1996) 91
Drobný, G., see Bandilla, A. 128 (1996) 353
Dunn, D.B., see Xia, J. 128 (1996) 1
Dvornikov, A.S., I. Cokgor, F. McCormick, R. Piyaket, S. Esener and P.M. Rentzepis, Molecular transformation as a means for 3D optical memory devices 128 (1996) 205

Ebrahimzadeh, M., see French, S. 128 (1996) 166
Esener, S., see Dvornikov, A.S. 128 (1996) 205

French, S., M. Ebrahimzadeh and A. Miller, Visible picosecond pulse generation in a frequency doubled optical parametric oscillator based on LiB_3O_5 128 (1996) 166
Freund, I., Intensity critical point correlation functions in random wave fields 128 (1996) 315

Gabrysch, M., see Corsi, C. 128 (1996) 35
Gaidon, T., see Réfrégier, Ph. 128 (1996) 211
Garrett, W.R., Y. Zhu, L. Deng and M.G. Payne, Multi-photon excitation through a resonant intermediate state: unique separation of coherent and incoherent contributions 128 (1996) 66
Godfried, H.P., see Offerhaus, H.L. 128 (1996) 61
Goudail, F., see Réfrégier, Ph. 128 (1996) 211
Günter, P., see Medrano, C. 128 (1996) 177
Gutiérrez-Castrejón, R., K.M. Hung and T.J. Hall, A symmetry analysis in the mixed grating geometry of degenerate four-wave mixing in saturable-gain media 128 (1996) 275

Haldar, M.K., see Teo, C.Y. 128 (1996) 262
Hall, T.J., see Gutiérrez-Castrejón, R. 128 (1996) 275
Hänninen, P.E., see Hell, S.W. 128 (1996) 394
Hell, S.W., M. Schrader, P.E. Hänninen and E. Soini, Resolving fluorescence beads at 100–200 nm axial distance with a two-photon 4Pi-microscope operating in the near infrared (Optics Comm. 120 (1995) 129) 128 (1996) 394
Hill, S.C., see Chowdhury, D.Q. 128 (1996) 197
Hirth, A., see Weber, B.C. 128 (1996) 158
Hung, K.M., see Gutiérrez-Castrejón, R. 128 (1996) 275

Inguscio, M., see Corsi, C. 128 (1996) 35

Jex, I., see Bandilla, A. 128 (1996) 353

Kant, R., Vector diffraction in paraboloidal mirrors with Seidel aberrations. I: Spherical aberration, curvature of field aberration and distortion 128 (1996) 292
Katayama, K., see Nishimura, G. 128 (1996) 99
Kinjo, M., see Nishimura, G. 128 (1996) 99
Kolinko, P.V., see Atutov, S.N. 128 (1996) 236
Kramer, G., see Stoll, K. 128 (1996) 248
Kunze, S., S. Wolf and G. Rempe, Measurement of fast frequency fluctuations: Allan variance of a grating-stabilized diode laser 128 (1996) 269

Lai, Y., see Chien, C.-H. 128 (1996) 145
Lane, R.G., see Law, N.F. 128 (1996) 341

Large, M.C.J., D.R. McKenzie and M.I. Large, Incoherent reflection processes: a discrete approach 128 (1996) 307
Large, M.I., see Large, M.C.J. 128 (1996) 307
Law, N.F. and R.G. Lane, Blind deconvolution using least squares minimisation 128 (1996) 341
Lee, J.-Y., M.-H. Chiu and D.-C. Su, Central fringe identification using a heterodyne interferometric technique and a tunable laser-diode 128 (1996) 193
Lehmann, M., Phase-shifting speckle interferometry with unresolved speckles: A theoretical investigation 128 (1996) 325
Li, C.-Y., see Coudray, P. 128 (1996) 19
Li, L., see Teo, C.Y. 128 (1996) 262
Lin, J., see Zhu, Y. 128 (1996) 254
Lin, Q., see Lu, X. 128 (1996) 55
Liu, Z., see Dong, G. 128 (1996) 8
Lohmann, A.W., Z. Zalevsky and D. Mendlovic, Synthesis of pattern recognition filters for fractional Fourier processing 128 (1996) 199
Lu, X., G. Ru, Q. Lin and S. Wang, Analysis of the properties of self compensation for thermal distortion in a Eckige-Schraube laser 128 (1996) 55

Malek-Tabrizi, A., see Coudray, P. 128 (1996) 19
Malomed, B.A., see Chu, P.L. 128 (1996) 76
Malos, J.T., K. Staliunas, M. Vaupel and C.O. Weiss, Three-dimensional representation of two-dimensional vortex dynamics in lasers 128 (1996) 123
Mamaev, A.V. and M. Saffman, Pattern formation in a linear photorefractive oscillator 128 (1996) 281
Masoller, C., Effect of the external cavity length in the dynamics of a semiconductor laser with optical feedback 128 (1996) 363
Matera, F. and M. Settembre, Comparison of the performance of optical systems operating in long links encompassing dispersion shifted fibers 128 (1996) 216
Matsushima, S. and Y. Tomita, Experimental investigation of the relationship between photorefractive and two-beam coupling response times 128 (1996) 287
McCormick, F., see Dvornikov, A.S. 128 (1996) 205
McKenzie, D.R., see Large, M.C.J. 128 (1996) 307
Medrano, C., M. Zgonik, P. Bernasconi and P. Günter, Phase conjugation in optical communication links with photorefractive Fe:$KNbO_3$ 128 (1996) 177
Mendis, F.V.C., see Teo, C.Y. 128 (1996) 262
Mendlovic, D., see Lohmann, A.W. 128 (1996) 199
Merkel, K.D. and W.R. Babbitt, Compensation for homogeneous dephasing in coherent transient optical memories and processors 128 (1996) 136
Meziane, B., Inhomogeneously broadened laser modeling: strategies and validity of low-dimensional formulations of the Maxwell–Bloch equations 128 (1996) 377
Miller, A., see French, S. 128 (1996) 166
Miniewicz, A., see Turalski, W. 128 (1996) 385
Möller, T., see Rubens, A. 128 (1996) 229
Monro, T.M., C.M. de Sterke and L. Poladian, Self-writing a waveguide in glass using photosensitivity (Optics Comm. 119 (1995) 523) 128 (1996) 393
Murphy, J.E., see Roberts, A. 128 (1996) 41

Najafi, S.I., see Coudray, P. 128 (1996) 19
Nishimura, G., K. Katayama, M. Kinjo and M. Tamura, Diffusing-wave absorption spectroscopy in homogeneous turbid media 128 (1996) 99

Offerhaus, H.L., H.P. Godfried and W.J. Witteman, All solid-state diode pumped Nd:Yag MOPA with stimulated Brillouin phase conjugate mirror 128 (1996) 61

Payne, M.G., see Garrett, W.R. 128 (1996) 66
Peng, G.D., see Chu, P.L. 128 (1996) 76
Petersen, P.M., see Andersen, P.E. 128 (1996) 185
Petrov, D.V., Guided and radiation modes of a graded-index waveguide with defocusing nonlinearity 128 (1996) 223
Peyghambarian, N., see Coudray, P. 128 (1996) 19
Piyaket, R., see Dvornikov, A.S. 128 (1996) 205
Poladian, L., see Monro, T.M. 128 (1996) 393
Poon, T.-C., see Xia, J. 128 (1996) 1

Réfrégier, Ph., F. Goudail and T. Gaidon, Optimal location of random targets in random background: random Markov fields modelization 128 (1996) 211
Rempe, G., see Kunze, S. 128 (1996) 269
Rentzepis, P.M., see Dvornikov, A.S. 128 (1996) 205
Roberts, A. and J.E. Murphy, Evanescent fields with subwavelength features: their behaviour and application to atom optics 128 (1996) 41
Ru, G., see Lu, X. 128 (1996) 55
Rubens, A., B. de Castro and T. Möller, Estimate of experimental yield for two-photon absorption in helium 128 (1996) 229

Saffman, M., see Mamaev, A.V. 128 (1996) 281
Sanchez, P., see Zhu, Y. 128 (1996) 254
Schmidt-Iglesias, C., Triplet-level-crossing emission resonances in backward degenerate four-wave mixing 128 (1996) 241
Schrader, M., see Hell, S.W. 128 (1996) 394
Settembre, M., see Matera, F. 128 (1996) 216
Shalagin, A.M., see Atutov, S.N. 128 (1996) 236
Soini, E., see Hell, S.W. 128 (1996) 394
Staliunas, K., see Malos, J.T. 128 (1996) 123
Stoll, K. and G. Kramer, Dynamic excess absorption of saturable Doppler-broadened transitions 128 (1996) 248
Su, D.-C., see Lee, J.-Y. 128 (1996) 193
Sun, L., see Wang, Q. 128 (1996) 73

Tamura, M., see Nishimura, G. 128 (1996) 99
Teo, C.Y., M.K. Haldar, L. Li and F.V.C. Mendis, The relationship between the static and dynamic properties of optically switched injection-locked bistable semiconductor lasers 128 (1996) 262
Tomita, Y., see Matsushima, S. 128 (1996) 287
Turalski, W. and A. Miniewicz, Numerical modelling of space charge field in a photorefractive material illuminated by a nonsinusoidal light intensity pattern 128 (1996) 385

Vaupel, M., see Malos, J.T. 128 (1996) 123
Videen, G., Light scattering from an irregular particle behind a plane interface 128 (1996) 81
Vostrikov, O.A., see Atutov, S.N. 128 (1996) 236

Wang, C., see Zhang, X. 128 (1996) 15
Wang, J., see Chien, C.-H. 128 (1996) 145
Wang, Q., S. Zhao, X. Zhang, L. Sun and S. Zhang, Laser demonstration of a diode-laser-pumped Nd:$Sr_5(PO_4)_3F$ crystal 128 (1996) 73
Wang, S., see Lu, X. 128 (1996) 55
Weber, B.C. and A. Hirth, Efficient single-pulse emission with submicrosecond duration from a Cr:LiSAF laser 128 (1996) 158
Weiss, C.O., see Malos, J.T. 128 (1996) 123
Witteman, W.J., see Offerhaus, H.L. 128 (1996) 61
Wolf, S., see Kunze, S. 128 (1996) 269

Xia, J., D.B. Dunn, T.-C. Poon and P.P. Banerjee, Image edge enhancement by Bragg diffraction 128 (1996) 1
Xie, R. and G. Xu, Reduced quantum fluctuations and symmetry breaking in thermal Jaynes-Cummings model 128 (1996) 48
Xu, G., see Xie, R. 128 (1996) 48

Yu, S.-S., see Chien, C.-H. 128 (1996) 145

Zalevsky, Z., see Lohmann, A.W. 128 (1996) 199
Zgonik, M., see Medrano, C. 128 (1996) 177
Zhang, S., see Wang, Q. 128 (1996) 73
Zhang, X., C. Wang and K. Chen, Equivalent network approach for a general nonlinear planar optical waveguide 128 (1996) 15
Zhang, X., see Wang, Q. 128 (1996) 73
Zhang, Y., see Cao, W. 128 (1996) 23
Zhao, S., see Wang, Q. 128 (1996) 73
Zhu, Y., J. Lin and P. Sanchez, Measurement of light amplification in coherently pumped rubidium atoms 128 (1996) 254
Zhu, Y., see Garrett, W.R. 128 (1996) 66

ELSEVIER

15 July 1996

Optics Communications 128 (1996) 400–403

OPTICS COMMUNICATIONS

Subject index to volume 128

Propagation, diffraction and scattering

G. Videen, Light scattering from an irregular particle behind a plane interface 81

D. Dragoman, Fractional Fourier-related functions 91

G. Nishimura, K. Katayama, M. Kinjo and M. Tamura, Diffusing-wave absorption spectroscopy in homogeneous turbid media 99

J.-Y. Lee, M.-H. Chiu and D.-C. Su, Central fringe identification using a heterodyne interferometric technique and a tunable laser-diode 193

D.Q. Chowdhury, S.C. Hill and P.W. Barber, Comment on "The morphology dependent resonance does not require discontinuity of the refractive index at the sphere surface" 197

R. Kant, Vector diffraction in paraboloidal mirrors with Seidel aberrations. I: Spherical aberration, curvature of field aberration and distortion 292

M.C.J. Large, D.R. McKenzie and M.I. Large, Incoherent reflection processes: a discrete approach 307

Optical information, image formation and analysis, optical computing

J. Xia, D.B. Dunn, T.-C. Poon and P.P. Banerjee, Image edge enhancement by Bragg diffraction 1

A.K. Cherri, High-radix signed-digit arithmetic using symbolic substitution computations 108

J.T. Malos, K. Staliunas, M. Vaupel and C.O. Weiss, Three-dimensional representation of two-dimensional vortex dynamics in lasers 123

K.D. Merkel and W.R. Babbitt, Compensation for homogeneous dephasing in coherent transient optical memories and processors 136

A.W. Lohmann, Z. Zalevsky and D. Mendlovic, Synthesis of pattern recognition filters for fractional Fourier processing 199

A.S. Dvornikov, I. Cokgor, F. McCormick, R. Piyaket, S. Esener and P.M. Rentzepis, Molecular transformation as a means for 3D optical memory devices 205

Ph. Réfrégier, F. Goudail and T. Gaidon, Optimal location of random targets in random background: random Markov fields modelization 211

I. Freund, Intensity critical point correlation functions in random wave fields 315

M. Lehmann, Phase-shifting speckle interferometry with unresolved speckles: A theoretical investigation 325

N.F. Law and R.G. Lane, Blind deconvolution using least squares minimisation 341

Optical communications

G. Dong and Z. Liu, Soliton resulting from the combined effect of higher order dispersion, self-steepening and nonlinearity in an optical fiber 8

X. Zhang, C. Wang and K. Chen, Equivalent network approach for a general nonlinear planar optical waveguide 15

P. Coudray, J. Chisham, A. Malek-Tabrizi, C.-Y. Li, M.P. Andrews, N. Peyghambarian and S.I. Najafi, Ultraviolet light imprinted sol-gel silica glass waveguide devices on silicon 19

W. Cao and Y. Zhang, The effect of pulse walkoff on the compression of bright optical pulses by dark solitons 23

C.-H. Chien, S.-S. Yu, Y. Lai and J. Wang, Off-axial pulse propagation in graded-index materials with Kerr nonlinearity – a variational approach 145

F. Matera and M. Settembre, Comparison of the performance of optical systems operating in long links encompassing dispersion shifted fibers 216

D.V. Petrov, Guided and radiation modes of a graded-index waveguide with defocusing nonlinearity 223

Atomic, molecular and plasma physics

R. Buffa, Laser-induced resonances in ionizing radiative collisions 30

C. Corsi, M. Gabrysch and M. Inguscio, Detection of molecular oxygen at high temperature using a DFB-diode-laser at 761 nm 35

A. Rubens, B. de Castro and T. Möller, Estimate of experimental yield for two-photon absorption in helium 229

S.N. Atutov, P.V. Kolinko, A.M. Shalagin and O.A. Vostrikov, Investigation of light-induced drift of lithium vapor in the case of far removed cell walls 236

C. Schmidt-Iglesias, Triplet-level-crossing emission resonances in backward degenerate four-wave mixing 241

Condensed matter

K. Stoll and G. Kramer, Dynamic excess absorption of saturable Doppler-broadened transitions 248

Quantum optics

A. Roberts and J.E. Murphy, Evanescent fields with subwavelength features: their behaviour and application to atom optics 41

R. Xie and G. Xu, Reduced quantum fluctuations and symmetry breaking in thermal Jaynes-Cummings model 48

Y. Zhu, J. Lin and P. Sanchez, Measurement of light amplification in coherently pumped rubidium atoms 254

A. Bandilla, G. Drobný and I. Jex, Phase-space motion in parametric three-wave interaction 353

Lasers

X. Lu, G. Ru, Q. Lin and S. Wang, Analysis of the properties of self compensation for thermal distortion in a Eckige-Schraube laser 55

H.L. Offerhaus, H.P. Godfried and W.J. Witteman, All solid-state diode pumped Nd:Yag MOPA with stimulated Brillouin phase conjugate mirror 61

B.C. Weber and A. Hirth, Efficient single-pulse emission with submicrosecond duration from a Cr:LiSAF laser 158

C.Y. Teo, M.K. Haldar, L. Li and F.V.C. Mendis, The relationship between the static and dynamic properties of optically switched injection-locked bistable semiconductor lasers 262

S. Kunze, S. Wolf and G. Rempe, Measurement of fast frequency fluctuations: Allan variance of a grating-stabilized diode laser 269

C. Masoller, Effect of the external cavity length in the dynamics of a semiconductor laser with optical feedback 363

B. Meziane, Inhomogeneously broadened laser modeling: strategies and validity of low-dimensional formulations of the Maxwell–Bloch equations 377

Nonlinear optics

W.R. Garrett, Y. Zhu, L. Deng and M.G. Payne, Multi-photon excitation through a resonant intermediate state: unique separation of coherent and incoherent contributions 66

Q. Wang, S. Zhao, X. Zhang, L. Sun and S. Zhang, Laser demonstration of a diode-laser-pumped Nd:$Sr_5(PO_4)_3F$ crystal 73

P.L. Chu, B.A. Malomed and G.D. Peng, Nonlinear amplification in a second-harmonic-generating system 76

S. French, M. Ebrahimzadeh and A. Miller, Visible picosecond pulse generation in a frequency doubled optical parametric oscillator based on LiB_3O_5 166

C. Medrano, M. Zgonik, P. Bernasconi and P. Günter, Phase conjugation in optical communication links with photorefractive Fe:$KNbO_3$ 177

P.E. Andersen, P. Buchhave and P.M. Petersen, Strong coupling between coherent gratings due to nonlinear spatial frequency mixing in $Bi_{12}SiO_{20}$ 185

R. Gutiérrez-Castrejón, K.M. Hung and T.J. Hall, A symmetry analysis in the mixed grating geometry of degenerate four-wave mixing in saturable-gain media 275

A.V. Mamaev and M. Saffman, Pattern formation in a linear photorefractive oscillator 281

S. Matsushima and Y. Tomita, Experimental investigation of the relationship between photorefractive and two-beam coupling response times 287

W. Turalski and A. Miniewicz, Numerical modelling of space charge field in a photorefractive material illuminated by a nonsinusoidal light intensity pattern 385

Errata

T.M. Monro, C.M. de Sterke and L. Poladian, Self-writing a waveguide in glass using photosensitivity (Optics Comm. 119 (1995) 523) 393

S.W. Hell, M. Schrader, P.E. Hänninen and E. Soini, Resolving fluorescence beads at 100–200 nm axial distance with a two-photon 4Pi-microscope operating in the near infrared (Optics Comm. 120 (1995) 129) 394